

Claims

- 5 1. A double-transfected cell line containing (a) a DNA sequence encoding an uptake transporter for organic anions operatively linked with a promoter and (b) a DNA sequence encoding an export pump for organic anions or anionic conjugates operatively linked with a promoter.
- 10 2. The cell line of claim 1 which is a canine or human cell line and the DNA sequences of (a) and/or (b) are human.
3. The cell line of claim 1 or 2 which is a kidney cell line.
- 15 4. The cell line of any one of claims 1 to 3 wherein the uptake transporter for organic anions is a member of the subgroup 21A or 22A of the solute carrier (SLC) superfamily.
- 20 5. The cell line of claim 4, wherein the uptake transporter for organic anions is OAT1 (SLC22A6), OATP2 (SLC21A6), OATP8 (SLC21A8) or OATP-B (SLC21A9).
- 25 6. The cell line of any one of claims 1 to 5 wherein the export pump for organic anions or anionic conjugates is a member of the MDR (ABCB) subgroup or the MRP (ABCC) subgroup of the ABC superfamily.
- 30 7. The cell line of claim 6, wherein the export pump for organic anions or anionic conjugates is the bile salt export pump BSEP (ABCB11) or the multidrug resistance protein 2 (MRP2; ABCC2).
- 35 8. The cell line of any one of claims 1 to 7 wherein the DNA sequence encoding an uptake transporter for organic anions and/or the DNA sequence encoding an export pump for organic anions or anionic conjugates are operatively linked with a promoter allowing high expression.

9. Use of a cell line according to any one of claims 1 to 8 for the identification of a transport substrate or a transport inhibitor.

5 10. Use according to claim 9 wherein the transport inhibitor is a drug candidate.

10 11. Use according to claim 9 or 10 wherein the identification of a transport substrate or a transport inhibitor is carried out as high throughput screening.